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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
09/651,779	08/30/2000	Scott E Moore	108298515US	108298515US 2448	
7:	590 05/10/2002				
Perkins Coie			EXAMINER		
1201 3RD Avenue Suite 4800			NGUYEN,	DUNG V	
Seattle, WA 9	8101		ART UNIT	PAPER NUMBER	
			3723		
			DATE MAILED: 05/10/2002		

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No	o. ————————————————————————————————————	Applicant(s)	(
	-	09/651,779		SCOTT E. MOORE	(
	Office Action Summary	Examiner		Art Unit					
		Dung V Nguye		3723					
Period fo	The MAILING DATE of this communication ap or Reply	pears on the cov	er sheet with the c	correspondence address -	-				
THE I - Exter after - If the - If NO - Failu - Any r	ORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1. SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a represent of the reply is specified above, the maximum statutory period reto reply within the set or extended period for reply will, by statutely received by the Office later than three months after the mailing patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, ho bly within the statutory n will apply and will expire, cause the application	wever, may a reply be tin ninimum of thirty (30) day re SIX (6) MONTHS from n to become ABANDONE	nely filed s will be considered timely. the mailing date of this communica D (35 U.S.C. § 133).	ation.				
1)⊠	Responsive to communication(s) filed on 06	March 2002 .							
2a)□	· · · · · · · · · · · · · · · · · · ·	his action is non-	final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.									
Dispositi	on of Claims								
4)⊠	Claim(s) <u>1-81</u> is/are pending in the application	n.							
	4a) Of the above claim(s) See Continuation Sheet is/are withdrawn from consideration.								
5)⊠	☑ Claim(s) <u>37,38,43-48 and 76-81</u> is/are allowed.								
6)⊠	6)⊠ Claim(s) <u>1,2,5,13,14,16-18,23,26,29-31,39-42,49,50,61-63,66,67,74 and 75</u> is/are rejected.								
7) 🖾	Claim(s) 3,6-9,22,24,25,32,52,53,55,56,68 and	<u>id 69</u> is/are objec	cted to.						
8) 🗌	Claim(s) are subject to restriction and/o	or election requir	rement.						
Applicati	on Papers								
9)🛛 .	The specification is objected to by the Examine	er.							
10) 🔲 🗆	The drawing(s) filed on is/are: a)□ acce	epted or b)⊡ obje	cted to by the Exa	miner.					
	Applicant may not request that any objection to the								
11) 🔲 -	The proposed drawing correction filed on			oved by the Examiner.					
	If approved, corrected drawings are required in re	. •	iction.						
12) 🔲 -	The oath or declaration is objected to by the E	xaminer.							
Priority u	ınder 35 U.S.C. §§ 119 and 120								
13)	Acknowledgment is made of a claim for foreig	n priority under	35 U.S.C. § 119(a	ı)-(d) or (f).					
a)[☐ All b)☐ Some * c)☐ None of:								
	1. Certified copies of the priority documen	ts have been red	ceived.						
	2. Certified copies of the priority documents have been received in Application No								
* 0	3. Copies of the certified copies of the price application from the International Business the attached detailed Office action for a list	ureau (PCT Rule	17.2(a)).						
	cknowledgment is made of a claim for domest				eation)				
-	•				alion).				
15) 🗌 🖟) ☐ The translation of the foreign language pr Acknowledgment is made of a claim for domes	• •							
Attachment	•	-							
2) 🔲 Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s) _	4) <u> </u> 5) <u> </u> 6) <u> </u>	Notice of Informal I	y (PTO-413) Paper No(s) Patent Application (PTO-152)	<u> </u>				

Continuation Sheet (PTO-326)

Application No. 09/651,779

Continuation of Disposition of Claims: Claims withdrawn from consideration are 4,10-12,15,19-21,27,28,33-36,51,54,57-60,64,65 and 70-73

Art Unit: 3723

DETAILED ACTION

Election/Restrictions

Claims 4, 10-12, 15, 19-21, 27, 28, 33-36, 51, 54, 57-60, 64, 65 and 70-73 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected species, there being no allowable generic or linking claim. Election was made without traverse in Paper No. 4.

Specification

The disclosure is objected to because of the following informalities: typo errors, page 10, line 27, "electrodes 770a and 770b" should be "720a and 720b", line 29, "electrode pair 370a" should be "electrode pair 770a". Appropriate correction is required.

The attempt to incorporate subject matter into this application by reference to a publication entitles "Electroetching of Platinum in the Titanium-Platinum-Gold Metallization on Silicon Integrated Circuits" is improper because a publication date and/or a copy of the reference has not been furnished.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 18 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Art Unit: 3723

Claim 18 does not comply with the requirements of 35 U.S.C. 112, second paragraph because a trademark or trade name is used in a claim as a limitation to identify a particular material. The claim scope is uncertain since the trademark or trade name cannot be used properly to identify any particular material or product. The value of a trademark would be lost to the extent that it became descriptive of a product, rather than used as an identification of a source or origin on a product. Thus, the use of a trademark or trade name in a claim to identify or describe a material or product would not only render a claim indefinite, but would also constitute an improper use of the trademark or trade name.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) do not apply to the examination of this application as the application being examined was not (1) filed on or after November 29, 2000, or (2) voluntarily published under 35 U.S.C. 122(b). Therefore, this application is examined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

Claims 1, 2, 5, 13, 14, 16, 23, 26, 29, 31, 39-42, 49, 50, 61-63, 66, 67, 74 and 75 are rejected under 35 U.S.C. 102(e) as being anticipated by Easter et al (USPN

Art Unit: 3723

6,368,190). Easter et al disclose a method for removing an electrically conductive material from a microelectronic substrate comprising positioning a first conductive electrode proximate to the microelectronic substrate, positioning a second conductive electrode 56 proximate the microelectronic substrate and spaced apart from the first conductive electrode, removing the conductive material from the microelectronic substrate by passing a varying current 50 through the first and second electrodes 56 without contacting the first and second electrodes 56 directly with conductive material of the microelectronic substrate, engaging the microelectronic substrate with a planarizing medium 42 while the microelectronic substrate is positioned proximate to the electrodes, moving at least one of the microelectronic substrate and the planarizing medium 42 relative to the other to remove material from the microelectronic substrate by a chemical and/or chemical-mechanical process, disposing a dielectric layer 60 between the microelectronic substrate and the first electrode, selecting the electrically conductive material to includes tungsten, tantalum, gold and/or copper. Eater et al also disclose an apparatus for removing conductive material from a microelectronic substrate comprising a support member 30 having at least one engaging surface to support the microelectronic substrate, a first electrode spaced apart from the support member 30 and from the microelectronic substrate when the microelectronic substrate is supported by the support member 30, a second electrode 56 spaced apart from the support member 30 and from the microelectronic substrate when the microelectronic substrate is supported by the support member 30, the second electrode 56 being spaced apart from the first electrode, at least one of the first and second electrodes 56 being

Art Unit: 3723

coupleable to a source of varying current 50, a planarizing medium 42 positioned proximate to the support member 30 to engage the support member when the support member engages the microelectronic substrate, a liquid electrolyte adjacent to the first electrode, a conduit 46 coupleable to a source of electrolyte, the conduit 46 having an outlet aperture proximate to the first and second electrodes, wherein the first and second electrodes define an electrode pair and the support member 30 is movable relative to the other while the at least one of the first and second electrodes is coupled to the source of varying current 50 (note abstract, Fig. 1, 2, col. 3, line 46 to col. 4, line 31, col. 5, lines 35-55).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 17, 18 and 30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Easter et al. Easter et al disclose the claimed invention as described above, however, Easter et al do not disclose an electrolyte includes hydrochloric acid, the dielectric material includes Teflon, the first electrode includes a carbonaceous material. It would have been obvious to one having ordinary skill in the art at the time the invention was made to include hydrochloric acid in the electrolyte, Teflon in the dielectric material and carbonaceous material in the first electrode, since it has been held to be within the general skill of a worker in the art to select a known material on the

Art Unit: 3723

Page 6

basis of its suitability for the intended use as a matter of obvious design choice. *In re Leshin*, 125 USPQ 416.

Allowable Subject Matter

Claims 37, 38, 43-48 and 76-81 are allowed.

Claims 3, 6-9, 22, 24, 25, 32, 52, 53, 55, 56, 68 and 69 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter: prior art of record fails to disclose or imply a method for removing an electrically conductive material from a microelectronic substrate comprising moving at least one of the microelectronic substrate and an electrode pair relative to other to align a second portion of the microelectronic substrate with the electrode pair and removing the conductive material from the second portion of microelectronic substrate or an apparatus for removing an electrically conductive material from a microelectronic substrate comprising a second electrode pair including third and fourth conductive electrodes spaced apart from a first electrode pair and being at least proximate to the microelectronic substrate when the microelectronic substrate is supported by a support member, as specifically recited by applicant's respective claims.

Conclusion

Art Unit: 3723

Page 7

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Katsumoto et al, Glass and Uzoh are cited to show method and apparatus for removing conductive material from a microelectronic substrate.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dung V Nguyen whose telephone number is 703-305-0036. The examiner can normally be reached on M-F, 6:30-3:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph J Hail can be reached on 703-308-2687. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9320 for regular communications and 703-872-9303 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-1148.

DVN Mov 7, 200

May 7, 2002

Dung Van Nguyen Patent Examiner

Jung van hynym

Attachment for PTO-948 (Rev. 03/01, or earlier) 6/18/01

The below text replaces the pre-printed text under the heading, "Information on How to Effect Drawing Changes," on the back of the PTO-948 (Rev. 03/01, or earlier) form.

INFORMATION ON HOW TO EFFECT DRAWING CHANGES

1. Correction of Informalities -- 37 CFR 1.85

New corrected drawings must be filed with the changes incorporated therein Identifying indicia, if provided, should include the title of the invention inventor's name, and application number, or docket number (if any) if an application number has not been assigned to the application. If this information is provided, it must be placed on the front of each sheet and centered within the top margin. If corrected drawings are required in a Notice of Allowability (PTOL-37), the new drawings MUST be filed within the THREE MONTH shortened statutory period set for reply in the Notice of Allowability. Extensions of time may NOT be obtained under the provisions of 37 CFR 1 136(a) or (b) for filing the corrected drawings after the mailing of a Notice of Allowability. The drawings should be filed as a separate paper with a transmittal letter addressed to the Official Draftsperson.

2. Corrections other than Informalities Noted by Draftsperson on form PTO-948.

All changes to the drawings, other than informalities noted by the Drattsperson, MUST be made in the same manner as above except that, normally, a highlighted (preferably red ink) sketch of the changes to be incorporated into the new drawings MUST be approved by the examiner before the application will be allowed. No changes will be permitted to be made other than correction of informalities, unless the examiner has approved the proposed changes

Timing of Corrections

Applicant is required to submit the drawing corrections within the time period set in the attached Office communication See 37 CFR 1.85(a)

Failure to take corrective action within the set period will result in ABANDONMENT of the application.